

SCD-2080R

Kamera kopułkowa 1/3" na podczerwień, o wysokiej rozdzielczości

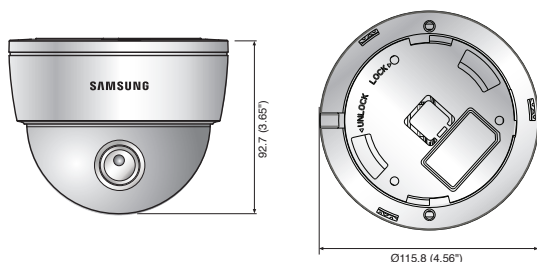


Główne atuty

- Wysoka rozdzielczość 600 linii TV (kolor), 700 linii TV (czarno-biały)
- Min. poziom oświetlenia 0 luksów (wł. diody podczerwieni), zasięg podczerwieni – 20 m
- Obiektyw zmiennoogniskowy 3,6x (2,8–10 mm)
- Rzeczywista funkcjonalność dzień/noc (ICR), MD, SSNR III (3D+2D)
- Sterowanie przy użyciu przewodu koncentrycznego (Pelco-C), 12 V DC

Wymiary

Jednostka : mm



Dane techniczne

	SCD-2080RN	SCD-2080RP
WIDEO		
Urządzenie obrazujące	1/3-calowy przetwornik CCD Super HAD	
Całkowita liczba pikseli	811 (poz.) x 508 (pion.)	795 (poz.) x 596 (pion.)
Efektywna liczba pikseli	768 (poz.) x 494 (pion.)	752 (poz.) x 582 (pion.)
System skanowania	2 : 1 w trybie z przeplotem	
Synchronizacja	Wewnętrzna/blokada linii	
Częstotliwość	Poz.: 15,734 kHz / pion.: 59,94 Hz	Poz.: 15,625 kHz / pion.: 50 Hz
Rozdzielczość pozioma	Kolor: 600 linii TV, czarno-biały: 700 linii TV	
Min. oświetlenie	Kolor: 0,15 luksa przy F1,2 (50IRE), 0,0003 luksa (Sens-up, 512x), Czarno-biały: 0 luksów przy (LED wł.)	
Współczynnik sygnał/szum	52 dB (AGC wyt., waga wł.)	
Wyjście wideo	CVBS: zespolony sygnał wizyjny 1,0 Vp-p/75Ω	
OBIEKTYW		
Odległość ogniskowa (współczynnik zoomu)	2,8–10 mm (3,6x)	
Maks. otwór przesłony	1 : 1,2 (panor.) – 2,8 (tele)	
Kąt pola widzenia	Poz.: 94,4°(panor.) – 28°(tele) / pion.: 69,2 (panor.) – 21 (tele)	
Min. odległość obiektu	0,2 m	
Rodzaj obiektywu	Automatyczna przysłona DC	
Typ mocowania	Płytowy	
PANORAM./ODCHYL.		
Zakres pan.	0° ~ 352°	
Zakres odchylenia	0° ~ 73°	
Zakres obracania	0° ~ 348°	
INFORMACJE DOTYCZĄCE OBSŁUGI		
Wyświetlanie informacji na ekranie (OSD)	Obsługa wielu języków za pośrednictwem przewodu koncentrycznego Angielski, japoński, hiszpański, francuski, Portugalski, tajwański, koreański	Obsługa wielu języków za pośrednictwem przewodu koncentrycznego Angielski, francuski, niemiecki, hiszpański, włoski, Chiński, rosyjski, polski, czeski, rumuński, Serbski, szwedzki, duński, turecki, portugalski
Tytuł kamery	Wyt. / wł. (wyświetlanie 15 znaków)	
Dzień i noc	Autom. (ICR)/kolorowy/czarno-biały	
Kompensacja podświetlenia	BLC / HLC / Wyt.	
Poprawa kontrastu	SSDR (Wyt./Wł.)	
Redukcja szumów cyfrowych	SSNRIII (wyt./wł.)	
Cyfrowa stabilizacja obrazu	Wyt./wł.	
Wykrywanie ruchu	Wyt./wł. (8 programowalnych stref)	
Maska prywatności	Wyt./wł. (12 programowalnych stref)	
Nasylenie (Integracja obrazu)	2x–512x	
Regulacja wzmocnienia	Wyt./niskie/wysokie	
Balans bieli	ATW/na zewnątrz/wewnątrz/ręczny/AWC (1700 K°– 11 000 K)	
Prędkość elektronicznej migawki	1/60–1/120 000 s	1/50–1/120 000 s
Cyfrowy zoom	Wyt./wł. (1x–16x)	
Odwracanie	H-Rev (Wyt./Wł.)/V-Rev (Wyt./Wł.)	
Komunikacja	Sterowanie przy użyciu przewodu koncentrycznego (zgodność z SPC-300)	
Protokół	Koncentryczny : Pelco-C (Coaxitron)	
Zasięg podczerwieni	20 m (diody podczerwieni 12 szt.)	
DANE UŻYTKOWE		
Temperatura robocza/wilgotność	Od -10°C do +50°C / poniżej 90% wilgotności względnej	
ELEKTRYCZNE		
Napięcie i prąd wejściowy	12 V DC ± 10%	
Pobór mocy	Maks. 3,5 W	
DANE ZEWNĘTRZNE		
Kolor/materiał	Kości słoniowa/plastik (osłona kopułkowa: przyciemniona)	
Wymiary (szer. x wys.)	Ø115,8 x 92,7 mm	
Waga	365 g	

SCD-2080

Kamera kopułkowa wysokiej rozdzielczości 1/3",
ze zmienną ogniskową



Cechy użytkowe

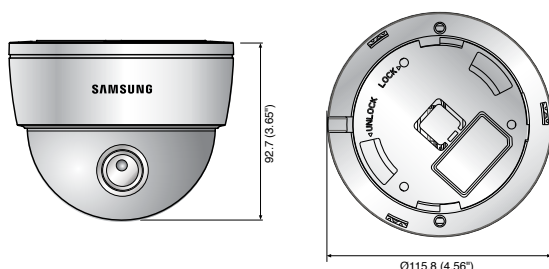
- Super HAD kolor CCD, 1/3"
- Na bazie W-V, zwycięskiego silnika DSP najnowszej generacji
- Wbudowany obiektyw o zmiennej ogniskowej 3.6X (2.8 ~ 10 mm) z automatyczną przysłoną
- Technologia redukcji szumów SSNRIII, uaktualniona do wersji 2D/3D
- Dzień i noc z ICR (Infrared Cutfilter Removal)
- Wysoka rozdzielczość dająca 600 linii TV (kolor), 700 linii TV (B/W)
- Min. natężenie oświetlenia 0,15 lx przy F1.2 (kolor)
0.001 lx przy F1.2 (B/W)
0.0003 lx przy F1.2 (kolor sens-up)
- Maskowanie obszarów prywatnych, 12 stref programowanych przez użytkownika
- SSDR (Samsung Super Dynamic Range)
- HLC (kompensacja tylnego odświecenia)
- DIS (cyfrowa stabilizacja obrazu)
- Wykrywanie ruchu
- Sterowanie kablem koncentrycznym
- Obsługa Sens-up 512x
- OSD w wielu językach
- Współczynnik S/N 52dB
- Podwójne napięcie zasilania: 12 V DC 24V

Parametry techniczne

	SCD-2080N		SCD-2080P	
ELEKTRYCZNE				
Napięcie wejściowe	Podwójne (12 VDC/24 VAC)			
Pobór mocy	Maks. 3,5 W			
WIZJA				
Urządzenie obrazowania	Super HAD kolor CCD, 1/3"			
Piksele łącznie	811 (H) X 508 (V)	795 (H) X 596 (V)		
Piksele efektywne	768 (H) X 494 (V)	752 (H) X 582 (V)		
System skanowania	2 : 1 Przeplot			
Synchronizacja	Wewnętrzna/Zasilanie sieciowe			
Częstotliwość	H : 15,734 kHz/V: 59.94 Hz		H: 15,625 kHz/V: 50 Hz	
Rozdzielczość pozioma	Kolor: 600 linii TV (min.)/B/W: 700 linii TV (min.)			
Min. natężenie oświetlenia	Kolor: 0.15 lx (50IRE przy F1.2), 0.0003 lx (Sens-up, 512X) B/W: 0.001 lx (50 IRE przy F1.2)			
S/N (sygnał Y)	52dB (AGC wyt., obciąż. wł.)			
Wyjście wizyjne	CVBS: 1.0Vp-p / 75 Ω, zespolone			
OBIEKTYW				
Współczynnik zoomu	3.6x (reczne)			
Długość ogniskowej	2,8 ~ 10mm(F1.2)			
Maks. stosunek apertury	1 : 1,2 (panoramiczny) ~ 2,8 (teleobiektyw)			
Kątowe pole widzenia	H: 94,4°(panoramiczny) ~ 28°(teleobiektyw) / V : 69,2°(panoramiczny) ~ 21°(teleobiektyw)			
Pan /Tilt/Obrót				
Zakres panoramy	0° ~ 352°			
Zakres przechyłu	0° ~ 73°			
Zakres obrotu	0° ~ 348°			
ROBOCZE				
OSD - menu ekranowe	Angielski, Japoński, Hiszpański, Francuski, Portugalski, Tajwański, Koreański.		Angielski, Francuski, Niemiecki, Hiszpański, Włoski, Chiński, Rosyjski, Polski, Czeski, Rumuński, Serbski, Szwedzki, Duński, Turceki, Portugalski	
Tytuł kamery	Wł./Wyt. (15 znaków)			
Dzień i noc	Auto (ICR)/Kolor/B/W			
SSDR	Wł. / Wyt. (ustawianie poziomów)			
Kompensacja podświetlenia	BLC/HLC/Wyt.			
Wykrywanie ruchu	Wł./ Wyt. (8 programowanych stref)			
Cyfrowa stabilizacja obrazu	Wł./Wyt.			
Maskowanie prywatności	Wł./ Wyt. (12 programowanych stref)			
Filtr szumów 2D+3D (SSNRIII)	Wł. / Wyt. (ustawianie poziomów)			
Czułość sens-up (integracja kadru)	Auto /Wyt.(wybieralny limit 2X ~ 512X)			
Kontrola wzmacniania	Niski/Wysoki/Wyt.			
Balans białej	AWC/Ręczny/Na zewnątrz/Wewnętrzny/ATW (1,700°K ~ 11,000°K)			
Prędkość migawki elektronicznej	1/60 ~ 1/120K sek.		1/50 ~ 1/120K sek.	
Flip/Mirror	Wł./Wyt.			
Komunikacja	Sterowanie kablem koncentrycznym			
ŚRODOWISKOWE				
Temperatura/Wilgotność robocza	-10°C ~ +50°C/RH 30% ~ 90%			
MECHANICZNE				
Wymiary (szer. X wys.)	Ø115.8 X 92.7 mm (Ø4.56" X 3.65")			
Waga	345 g (0.76 lb)			
Certyfikaty	FCC (Klasa A), rejestrowany UL/cUL		CE (Klasa A), rejestrowany UL/cUL	

Wymiary

Urządzenie: mm (cal)



Nagrywanie w ciemności



Wysokiej rozdzielczości kamera kopułkowa na podczerwień

SCD-2080R

Model SCD-2080R to wysokiej rozdzielczości kamera kopułkowa o rzeczywistym obrazie za dnia/w nocy, która dzięki wbudowanym diodom podczerwieni może rozjaśniać obiekty, znajdujące się w odległości do 20 m od kamery.

Zapewnia to wyjątkowo wyraźne obrazy w całkowitej ciemności. Co więcej model SCD-2080R automatycznie dopasowuje intensywność światła diod podczerwieni, w zależności od odległości do monitorowanego obiektu, aby wyeliminować jasne, podświetlone punkty i zapewnić idealny balans obrazu na pierwszym planie i w tle. Model SCD-2080R jest wyposażony we wbudowany zmiennoogniskowy obiektyw do podczerwieni 3,6x (2,8-10 mm), dzięki czemu zapewnia elastyczność obsługi dla szerokiej gamy zastosowań.

- Wysoka rozdzielczość 600 linii TV (kolor), 700 linii TV (czarno-biały)
- Min. poziom oświetlenia 0 luksów (wł. diody podczerwieni), zasięg podczerwieni – 20 m
- Obiektyw zmiennoogniskowy 3,6x (2,8-10 mm)
- Rzeczywista funkcjonalność dzień/noc (ICR), MD, SSNR III (3D+2D)
- Sterowanie przy użyciu przewodu koncentrycznego (Pelco-C), 12 V DC

Wysokiej rozdzielczości kamera kopułkowa na podczerwień

SCD-2080R



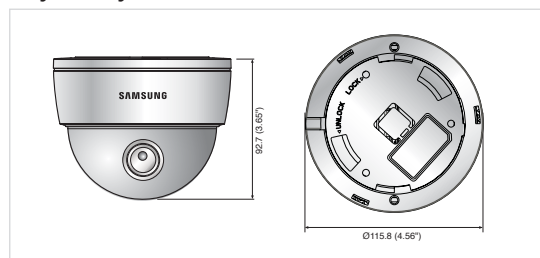
Dane techniczne

	SCD-2080RN	SCD-2080RP
WIDEO		
Urządzenie obrazujące	1/3-calowy przetwornik CCD Super HAD	
Całkowita liczba pikseli	811 (poz.) x 508 (pion.)	795 (poz.) x 596 (pion.)
Efektywna liczba pikseli	768 (poz.) x 494 (pion.)	752 (poz.) x 582 (pion.)
System skanowania	2 : 1 w trybie z przeplotem	
Synchronizacja	Blokada wewnętrzna/linii	
Częstotliwość	Poz.: 15 734 kHz / Pion.: 59,94 Hz	Poz.: 15 625 kHz / Pion.: 50 Hz
Rozdzielczość pozioma	Kolor: 600 linii TV / czarno-biały: 700 linii TV	
Min. oświetlenie	Kolor: 0,15 luksów przy F1.2 (50IRE), 0,0003 luksów (Sens-up, 512x), czarno-biały: 0 luksów przy (LED wł.)	
Współczynnik sygnał/szum	52 dB (AGC wyt., waga wł.)	
Wyjście wideo	CVBS: Zespolony sygnał wizyjny 1,0 Vp-p / 75 Ω	
OBIEKTYW		
Odległość ogniskowa (współczynnik zoomu)	2,8–10 mm (3,6x)	
Maks. otwór przesłony	1: 1,2 (panor.)–2,8 (tele)	
Kąt pola widzenia	Poz.: 94,4° (panor.)–28° (tele)/ Pion.: 69,2° (panor.)–21° (tele)	
Min. odległość obiektu	0,2 m	
Rodzaj obiektywu	Automatyczna przysłona DC	
Typ mocowania	Typ płyty	
PANORAM./ODCHYL.		
Zakres pan.	0° ~ 352°	
Zakres odchylenia	0° ~ 73°	
Zakres obracania	0° ~ 348°	
INFORMACJE DOTYCZĄCE OBSŁUGI		
Wyświetlanie informacji na ekranie (OSD)	Obsługa wielu języków za pośrednictwem przewodu koncentrycznego: angielski, japoński, hiszpański, francuski, portugalski, tajwański, koreański	Obsługa wielu języków za pośrednictwem przewodu koncentrycznego: angielski, francuski, niemiecki, hiszpański, włoski, chiński, rosyjski, polski, czeski, rumuński, serbski, szwedzki, duński, turecki, portugalski
Tytuł kamery	Wyt./wł. (wyświetlanie 15 znaków)	
Dzień i noc	Autom. (ICR)/kolorowy/czarno-biały	
Kompensacja podświetlenia	BLC/HLC/wyt.	
Poprawa kontrastu	SSDR (wyt./wł.)	
Redukcja szumów cyfrowych	SSNR(III) (wyt./wł.)	
Cyfrowa stabilizacja obrazu	Wyt./wł.	
Wykrywanie ruchu	Wyt./wł. (8 programowalnych stref)	
Maska prywatności	Wyt./wł. (12 programowalnych stref)	
Nasylenie (Integracja obrazu)	2x–512x	
Regulacja wzmocnienia	Wyt./niskie/wysokie	
Balans biały	ATW/na zewnątrz/wewnątrz/ręczny/AWC (1700 K– 11 000 K)	
Prędkość elektronicznej migawki	1/60–1/120 000 s	1/50–1/120 000 s
Cyfrowy zoom	Wyt./wł. (1x–16x)	
Odwracanie	H-Rev (Wyt./Wł.)/V-Rev (Wyt./Wł.)	
Komunikacja	Sterowanie przy użyciu przewodu koncentrycznego (zgodność z SPC-300)	
Protokół	Koncentryczny: Pelco-C (Coaxitron)	
Zasięg podczerwieni	20 m (diody podczerwieni 12 szt.)	
DANE UŻYTKOWE		
Temperatura robocza/wilgotność	Od -10°C do +50°C / poniżej 90% wilgotności względnej	
DANE DOTYCZĄCE ZASILANIA		
Napięcie i prąd wejściowy	12 V DC ± 10%	
Pobór mocy	Maks. 3,5 W	
DANE ZEWNĘTRZNE		
Kolor/materiał	Kość słoniowa/plastik (osłona kopułkowa: przyciemniona)	
Wymiary (szer. x wys. x głęb.)	Ø115,8 x 92,7 mm	
Waga	365 g	

* Produkty pochodne : SCD-2080EB

Wymiary

Jednostka: mm



Konstrukcja i dane techniczne urządzenia mogą ulec zmianie bez powiadomienia.



Znak Eco oznacza, że firma Samsung Techwin dba o to, aby jej produkty były przyjazne środowisku oraz, że dany produkt jest zgodny z dyrektywą EU RoHS.

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■ DYSTRYBUTOREM URZĄDZENIA JEST



SAMSUNG TECHWIN

High Resolution Day/Night IR Dome Camera

User Manual

SCD-2080R



High Resolution Day/Night IR Dome Camera

User Manual

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Warranty

If the product does not operate properly in normal conditions, please let us know. Samsung Techwin will resolve the problem for free of charge. The warranty period is 3 years. However, the followings are excluded:

- If the system behaves abnormally because you run a program irrelevant to the system operation.
- Deteriorated performance or natural worn-out in process of time

Before operating the camera, confirm the camera model and correct input power voltage.
To help you understand this manual thoroughly, we'll introduce our model description.

■ SCD-2080R SERIES

- NTSC MODEL
SCD-2080RN
- PAL MODEL
SCD-2080RP

■ MODEL DESCRIPTION

- SCD-2080RX

└─ SIGNAL SYSTEM

- SIGNAL SYSTEM
N → NTSC MODEL
P → PAL MODEL

safety information



CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates that dangerous voltage consisting a risk of electric shock is present within this unit.



This exclamation point symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

- To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.
- To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

WARNING

1. Be sure to use only the standard adapter that is specified in the specification sheet. Using any other adapter could cause fire, electrical shock, or damage to the product.
2. Incorrectly connecting the power supply or replacing battery may cause explosion, fire, electric shock, or damage to the product.
3. Do not connect multiple cameras to a single adapter. Exceeding the capacity may cause abnormal heat generation or fire.
4. Securely plug the power cord into the power receptacle. insecure connection may cause fire.
5. When installing the camera, fasten it securely and firmly. The fall of camera may cause personal injury.

6. Do not place conductive objects (e.g. screwdrivers, coins, metal parts, etc.) or containers filled with water on top of the camera. doing so may cause personal injury due to fire, electric shock, or falling objects.
7. Do not install the unit in humid, dusty, or sooty locations. doing so may cause fire or electric shock.
8. If any unusual smells or smoke come from the unit, stop using the product. in such case, immediately disconnect the power source and contact the service center. continued use in such a condition may cause fire or electric shock.
9. If this product fails to operate normally, contact the nearest service center. never disassemble or modify this product in any way. (samsung is not liable for problems caused by unauthorized modifications or attempted repair.)
10. When cleaning, do not spray water directly onto parts of the product. doing so may cause fire or electric shock.

CAUTION

1. Do not drop objects on the product or apply strong shock to it. Keep away from a location subject to excessive vibration or magnetic interference.
2. Do not install in a location subject to high temperature (over 50°C), low temperature (below -10°C), or high humidity. Doing so may cause fire or electric shock.
3. If you want to relocate the already installed product, be sure to turn off the power and then move or reinstall it.
4. Remove the power plug from the outlet when there is a lightning. Neglecting to do so may cause fire or damage to the product.
5. Keep out of direct sunlight and heat radiation sources. It may cause fire.
6. Install it in a place with good ventilation.
7. Avoid aiming the camera directly towards extremely bright objects such as sun, as this may damage the CCD image sensor.
8. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
9. The Mains plug is used as a disconnect device and shall stay readily operable at any time.
10. Do not expose the camera to radioactivity. Radioactivity exposure may damage the CCD.

safety information

FCC STATEMENT

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :

- 1) This device may not cause harmful interference, and
- 2) This device must accept any interference received including interference that may cause undesired operation.

CAUTION

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



IC Compliance Notice

This Class A digital apparatus meets all requirements of the Canadian Interference.-Causing Equipment Regulations of ICES-003.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

important safety instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
13. Unplug this apparatus when a card is used. Use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus



Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

contents

INTRODUCTION

9

- 9 Features
- 10 What's included
- 11 Component names and Functions

INSTALLATION

12

- 12 Installation
- 15 Adjust the panning and tilting while watching the monitor

CONNECTION

16

- 16 Connecting to Monitor
- 16 Connecting to Power
- 17 Using Coaxial Communications

SETUP

18

- 18 Menu Configuration
- 18 Menu Setup

TROUBLESHOOTING

31

- 31 Troubleshooting

SPECIFICATIONS

32

- 32 Specifications
- 34 Dimension

FEATURES

- **Ultra High Resolution**

By adopting a diagonal 6mm(1/3") 410,000 (NTSC) pixels, 470,000(PAL) pixels SONY CCD, the camera produces clear picture quality with a horizontal resolution of 600 TV lines for color and 700 TV lines for BW

- **Excellent Sensitivity**

The Built-in high sensitivity COLOR CCD enables a clear image even in 0Lux(B/W,IR-LED ON) or lower illumination,

- **SSNR3 (Samsung Super Noise Reduction) Function**

The high-performance W-V DSP chip effectively removes low-light gain noise and afterimage to provide clear images even in dark environments.

- **Day & Night (ICR)**

This camera has a function that automatically selects the mode that is appropriate for daytime or night-time conditions.

The COLOR mode operates in daytime conditions to provide optimum colors, and B/W mode operates in night-time conditions to enhance the definition of the image.

- **IR MODE Function**

The intensity of the IR-LEDs automatically adjust depending upon the closeness of the object to prevent saturation.

- **Indoor Visibility range 20M**

In B/W mode, the IR-LEDs are illuminated, the indoor visibility range at 0 Lux is 20M

- **SSDR (Samsung Super Dynamic Range)**

For images with high contrast between bright and dark areas from difficult lighting conditions such as backlighting, this camera selectively illuminates darker areas while retaining the same light level for brighter areas to even out the overall brightness.

- **DIS (Digital Image Stabilizer)**

The DIS function compensates for any camera movement, to produce more stable pictures.

- **Communication**

Coaxial communication methods are supported.

- Protocol : Pelco Coaxitron

introduction

- **Miscellaneous Functions**

HLC(High Light Compensation), SENS-UP, H/V-REV, D-ZOOM, SHARPNESS, MOTION DETECTION and PRIVACY functions are provided.






- **OSD**

The camera control is convenient by using 18 different foreign language O.S.D.

- NTSC : English, French, Spanish, Japanese, Korean, Portuguese, Taiwanese
- PAL : English, French, German, Spanish, Italian, Chinese, Czech, Danish, Polish, Portuguese, Russian, Romanian, Serbian, Swedish, Turkish

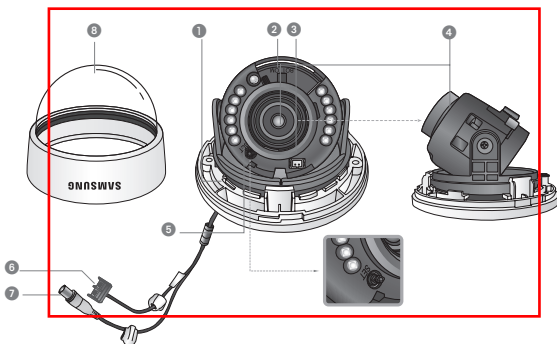
WHAT'S INCLUDED

Check if the following items are included in the product package.

		
SCD-2080R	User Manual	Quick Set-up Guide
		
M4 Tapping Screw 3EA	Installation Video Output Cable	

COMPONENT NAMES AND FUNCTIONS

FRONT

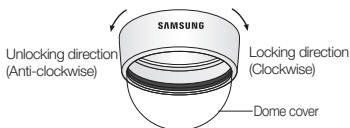
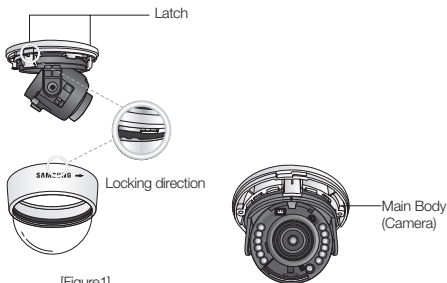


- ① **Pan Base** : control panning angle of camera
- ② **Tilt Base** : control tilting angle of camera
- ③ **Video Output Terminal to Monitor**
- ④ **x3.6 Vari-focal Lens Module 2.8 ~ 10.0mm (F1.2)**
- ⑤ **Function Setup switch** : Display the menu on the screen and move the cursor to four directions to confirm status or after changing a selected item.
- ⑥ **Power Input Terminal**
- ⑦ **Video Output Jack**
- ⑧ **Dome Cover**

installation

INSTALLATION

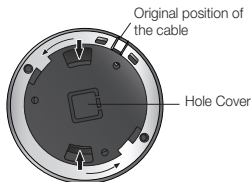
1. Separate the dome cover by turning anti-clockwise.
2. Separate the shield case by pulling from the camera body.



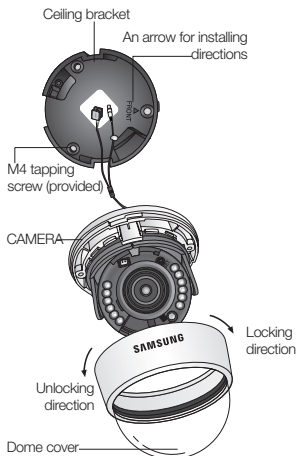
※ To install the dome cover on the camera body, turn the latches in the locking direction as shown in the figure 1.



- The installation should be done by qualified service personnel or system installers.
- If the ceiling material is not strong enough to hold the installation screws, the camera may fall off. Reinforce the ceiling as needed.
- To change the position of the cable, take away the Hole Cover and pass the cable through.

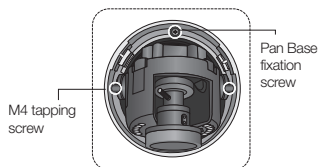


WHEN USING THE CEILING BRACKET



1. Hold the ceiling bracket (located where the arrow points to) and separate it from the main body of the camera by rotating it anti-clockwise. (refer to the picture in 'Notes' on page 12)
2. Place the separated ceiling bracket so that the "Front" side faces the area to be monitored and install it with the M4 tapping screws.
3. To combine the main body with the ceiling bracket, make sure that the pan base fixation screw face the opposite side of the "Front" side of the ceiling bracket and rotate it clockwise.
4. Adjust the camera lens to face the area to be monitored and fix the main body and the dome cover by aligning the grooves and rotating the body clockwise.

installation

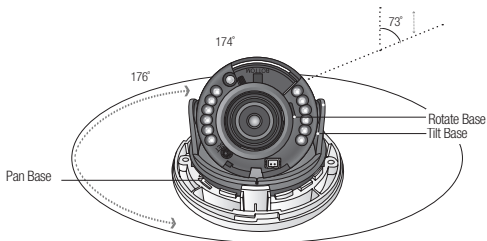


[Figure-2]



- If you want to install the camera with the ceiling bracket combined, fix it using two M4 tapping screws at the side of the main body (refer to the [Figure-2] on page 14)

ADJUST THE PANNING AND TILTING WHILE WATCHING THE MONITOR



1. You can adjust the camera to point in any direction by using the pan, Tilt mechanism.

- Pan Base can rotate by $\pm 176^\circ$ (total 352°)
- Tilt Base covers 73° angle.
- Rotate Base moves by 174° to each side direction and 348° on the whole.

2. Methods of adjustment

- When installing on a wall

- ① After mounting the camera on a wall, adjust the panning angle so that the correct viewing angle is attained and the tilting is correctly orientated.
- ② And then adjust the tilting angle by rotating the tilt base.
- ③ Loosen the rotate base hold screw and adjust rotate base for the best view.
- ④ Tighten pan and tilt securing screw.

- When installing on a ceiling

- ① After mounting the camera on a ceiling, adjust the panning angle so that the correct viewing angle is attained and the tilting is correctly orientated.
- ② And then adjust the tilting angle by rotating the tilt base.
- ③ Loosen the rotate base hold screw and adjust rotate base for the best view.
- ④ Tighten pan and tilt securing screw.

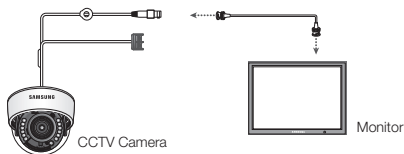


- When you want to adjust the Pan/Tilt Base, loosen, adjust and then tighten the Pan/Tilt Base screws.

connection

CONNECTING TO MONITOR

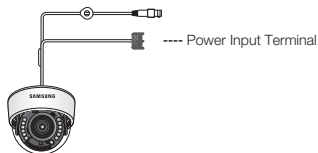
Connect the VIDEO-OUT jack to the VIDEO-IN jack of monitor.



- As the connecting method varies with the instruments, refer to the manual supplied with the instrument.
- Only connect the cable when the power is turned off.

CONNECTING TO POWER

Connect the adaptor to the power input connector as shown in the figure below.
The recommended adaptor specification for SCD-2080RN/SCD-2080RP is DC 12V / 500mA.



When the resistance value of copper wire is at [20°C(68°F)]

Copper wire size (AWG)	#24 (0.22mm ²)	#22 (0.33mm ²)	#20 (0.52mm ²)	#18 (0.83mm ²)
Resistance (Ω/m)	0.078	0.050	0.030	0.018
Voltage Drop (V/m)	0.028	0.018	0.011	0.006

- As shown in the table above, voltage decreases as the wire gets longer. Therefore, the use of an excessively long power cable to the camera may affect the camera's performance.

- * Standard voltage for camera operation : DC 12V \pm 10%
- * There may be some deviation in voltage drop depending on the type of wire and the manufacturer.

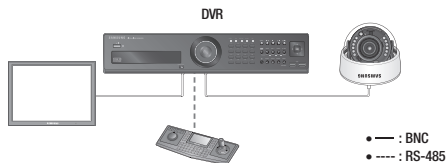


- Be sure to connect power only after all the installation is complete.
- Ground should be connected to the GND terminal.

USING COAXIAL COMMUNICATIONS

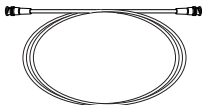
- Coaxial Communications System
- OSD Control method

CAMERA	DVR	CONTROLLER
SET	MENU/ENTER	OSD KEY
UP	UP KEY	JOYSTICK UP
DOWN	DOWN KEY	JOYSTICK DOWN
LEFT	LEFT KEY	JOYSTICK LEFT
RIGHT	RIGHT KEY	JOYSTICK RIGHT



- Video Cable

The camera's video output port is connected to the monitor with a BNC coaxial cable, shown below : If the distance between the camera and the monitor exceeds the recommended maximum, please use an auxiliary video amp.



Distance	Recommended Cable Specification
300m	3C2V(RG-59/U)
450m	5C2V(RG-6/U)
600m	7C2V(RG-11/U)



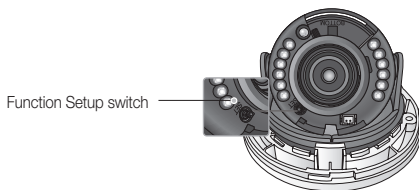
- If the camera is controlled through coaxial communication, please use a video amp intended for coaxial communications. Regular video amps do not transfer coaxial signals.

MENU CONFIGURATION

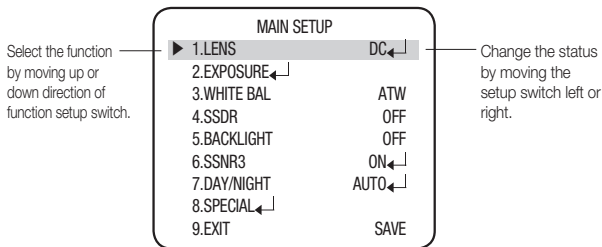
Setup Menu			
LENS	● DC		
EXPOSURE	● BRIGHTNESS ● SENS-UP	● SHUTTER ● RETURN	● AGC
WHITE BALANCE	● ATW ● MANUAL	● OUTDOOR ● AWC→SET	● INDOOR
SSDR	● OFF	● ON	
BACKLIGHT	● OFF	● BLC	● HLC
SSNR3	● OFF	● ON	
DAY/NIGHT	● AUTO	● COLOR	● B/W
SPECIAL	● IMAGE ADJ ● MOTION DET ● LANGUAGE	● MONITOR ● PRIVACY ● RETURN	● CAM TITLE ● DIS
EXIT	● SAVE	● NOT SAVE	● RESET

MENU SETUP

Use the Function Setup switch beside of the lens.



1. Press the Function Setup switch.
 - Main setup menu is displayed on the monitor screen.



- Select a desired function using the Function Setup switch.
 - Place the cursor over a desired item.
- Set up a selected item by using the Function Setup switch.
- To finish the setting, select 'EXIT' and press the Function Setup switch.



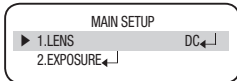
- An item with the ◀ icon also has sub menus. To select a sub menu, select an item with the icon and press the Function Setup switch.
- An item with the - - - icon is unavailable due to function settings.

LENS

Using this function, you can control the screen brightness.

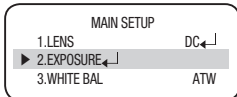
- When the SETUP menu screen is displayed, select 'LENS' by using the Function Setup switch so that the arrow indicates 'LENS'.
- The Lens mode has sub menu site as listed below.

- BRIGHTNESS** : Adjusts the video brightness.
- FOCUS ADJ** : To adjust the lens focus correctly, you must activate the Focus Settings mode. To activate the Focus Settings mode, adjust the lens focus, and then deactivate the settings mode.
- You can adjust the shutter value of ESC shutter mode.



EXPOSURE

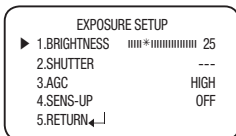
- When the SETUP menu screen is displayed, select EXPOSURE by using the Function Setup switch so that the arrow indicates 'EXPOSURE'.



setup

2. Select a desired mode using the Function Setup switch.

- **BRIGHTNESS** : Adjusts the video brightness.
- **SHUTTER** : You can select either auto or manual shutter.
 - **A.FLK** : Select this when you experience picture flicker, which can happen when there is a clash with the frequency of the installed lighting.
 - **ESC** : Select this to control the shutter speed automatically. If ESC is selected, the shutter speed is automatically controlled depending on the ambient illumination of the subject.
 - **MANUAL** : You can control shutter speed manually.
(NTSC MODEL : 1/60~1/120,000, PAL MODEL : 1/50~1/120,000)
 - **---** : Shutter speed is fixed at 1/60sec(1/50sec).

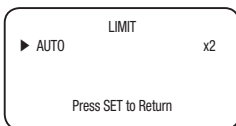


- Set the shutter mode to --- if color rolling occurs.
- When the SHUTTER is set to MANUAL or A.FLK mode, SENS-UP will be disabled.

• **AGC (AUTO GAIN CONTROL)** :

The higher the gain level, the brighter the screen but the higher the noise.

- **OFF** : Deactivates the AGC function.
- **LOW** : Allows automatic gain control from 5.3dB to 32dB.
- **HIGH** : Allows automatic gain control from 5.3dB to 37dB.



- **SENS-UP** : When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
 - **OFF** : Deactivates the SENS-UP function.
 - **AUTO** : Activates the SENS-UP function.

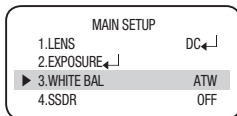


- If you press the Function Setup switch in 'AUTO' mode, You can adjust brightness by adjusting the SENS-UP level. (x2 ~ x512)
- Note that the higher the SENS-UP level, the brighter the screen, but the more likely it is that an after-image will appear.
- Although Noise, Spots, and Whitish symptoms may occur in SENS-UP operation when the sens-up level is increased, this is normal.
- If GAIN of EXPOSURE is not in use, the SENS-UP is set to "---".

WHITE BAL (WHITE BALANCE)

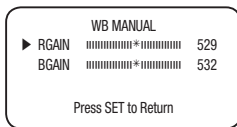
Use the White Balance function to adjust the screen color.

1. When the SETUP menu screen is displayed, select 'White Bal' by using the Function Setup switch so that the arrow indicates 'White Bal'.
2. Select a desired mode using the Function Setup switch.



※ Select one of the following 5 modes, as appropriate for your purpose.

- **ATW** : Select this when the color temperature is between 1,700°K and 11,000°K.
- **OUTDOOR** : Select this when the color temperature is between 1,700°K and 11,000°K.(sodium light inclusion)
Select this when the color temperature of environment surrounding the subject is out of the control range (e.g. clear sky, or sunset).
- **INDOOR** : Select this when the color temperature is between 4,500°K and 8,500°K.
- **MANUAL** : Select this to fine-tune White Balance manually. Set White Balance first by using the ATW or AWC mode. After that switch to MANUAL mode, fine-tune the White Balance and then press the Function Setup switch.
- **AWC→SET** : To find the optimal luminance level for the current environment, point the camera towards a sheet of white paper and press the Function Setup switch. If the environment changes, readjust it.



- White Balance may not work properly under the following conditions.

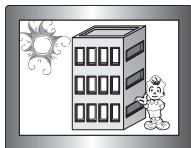
- ① When the ambient illumination of the subject is dim.
- ② If the camera is directed towards a fluorescent light or is installed in a place where illumination changes dramatically, the White Balance operation may become unstable.

SSDR (SAMSUNG SUPER DYNAMIC RANGE)

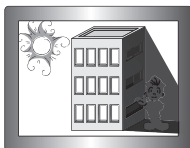
SSDR illuminates darker areas of an image while retaining the same light level for brighter areas to even out the overall brightness of images with high contrast between bright and dark areas.

1. When the SETUP menu screen is displayed, select 'SSDR' by using the Function Setup switch so that the arrow indicates 'SSDR'.
2. Use the Function Setup switch to change the SSDR level in the sub menu according to the contrast between bright and dark areas.

MAIN SETUP		
1.LENS		DC←┘
2.EXPOSURE←┘		
3.WHITE BAL		ATW
▶ 4.SSDR		OFF
5.BACKLIGHT		OFF



SSDR ON



SSDR OFF

BACKLIGHT

The SCD-2080R is designed so that it delivers a distinctive subject and background at the same time, even when the subject is in backlight, by adopting a function of the proprietary W-V DSP chip.

1. When the SETUP menu screen is displayed, select 'BACKLIGHT' by using the Function Setup switch so that the arrow indicates BACKLIGHT .
2. Select a desired mode using the Function Setup switch depending on the camera purpose.

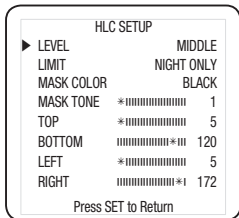
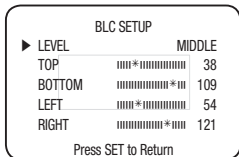
MAIN SETUP		
1. LENS		DC←┘
2. EXPOSURE←┘		
3. WHITE BAL		ATW
4. SSDR		OFF
▶ 5. BACKLIGHT		OFF
6. SSNR3		ON←┘

- **BLC** : Enables a user to directly select a desired area from a picture, and to view the area more clearly.
 - LEVEL : Adjust level of the BLC function.
 - TOP/BOTTOM/LEFT/RIGHT : Adjust the area to be enhanced.
- **HLC (High Light Compensation)** :
This function masks the strong light to minimize white out due to over exposure and preserve much of the on-screen details when the camera aims a strong light source.
 - LEVEL : Adjust level of the HLC function.
 - LIMIT : Enable to change the operating condition.
 - MASK COLOR/TONE :
Change the color / brightness of the masking area. (Black, Red, Blue, Cyan, Magenta)
 - TOP/BOTTOM/LEFT/RIGHT :
Adjust the area to be enhanced.
- **OFF** : Not being used

3. Select a desired mode using the Function Setup switch and press the switch.

Select 'BLC' to adjust the area to be enhanced then adjust the level.

HLC : Enable the user to change the level, limit, mask color/tone and area.



- Because there can be a difference in the effectiveness of HLC according to the amount of light area in the screen, optimize the installation angle for the best HLC performance.
- In a dark environment, the HLC is only activated when a high light that is larger than a certain area is present.
- The HLC is not activated in overly bright or dark condition. (In NIGHT ONLY mode.)
- When HLC Function is used, D-ZOOM and DIS function are not activated.
- BLC function does not work in B/W mode.

- **COLOR** : The picture is always displayed in color.
- **B/W** : The picture is always displayed in black and white.
You can turn on or off the burst signal on B/W mode.

- **IR LED Mode** : On: 12EA, Off: 6EA
- **IR Mode** : When IR LED is turned on in B/W, the objects can be clearly identified due to the function that decreases screen saturation of objects within a short distance.

IR MODE SETUP		
TOP	*	50
BOTTOM	*	110
LEFT	*	52
RIGHT	*	118

- **AUTO** : The mode is switched to 'Color' in a normal environment, but switches to 'B/W' mode when ambient illumination is low.
To set up the switching time for AUTO mode, press the Function Setup switch.

AUTO SETUP		
▶ 1.BURST MODE		ON
2.COLOR→B/W		
DURATION		FAST
DWELL TIME		3 SEC
3.B/W→COLOR		
DURATION		FAST
DWELL TIME		10 SEC
4.RETURN◀		

- **BURST MODE** : You can turn on or off the burst signal on B/W mode.
- **DWELL TIME** : You can select the duration time about changing the day/night mode.
→3s, 5s, 7s, 10s, 15s, 20s, 30s, 40s, 60s
- **DURATION** : You can select the brightness level at which the camera switches from day to night mode.

	Color → B/W	B/W → Color
Fast	2.5 lux	5 lux
Slow	1 lux	10 lux

※ Light levels are often site dependant.



- When AGC in the EXPOSURE menu is 'OFF', '----' mode operates as selecting 'COLOR' mode and 'AUTO' mode cannot be selected.
- The OSD key does not work for 3 seconds when switching to Color or B/W, to ensure stable camera operation.
- BLC function does not work in B/W mode.

setup

SPECIAL

1. When the SETUP menu screen is displayed, select 'SPECIAL' by using the Function Setup switch so that the arrow indicates 'SPECIAL'.

MAIN SETUP		
1.LENS		DC◀▶
2.EXPOSURE◀▶		
3.WHITE BAL		ATW
4.SSDR		OFF
5.BACKLIGHT		OFF
6.SSNR3		ON◀▶
7.DAY/NIGHT		AUTO◀▶
▶ 8.SPECIAL◀▶		
9.EXIT		SAVE

2. Select a desired mode using the Function Setup switch.

SPECIAL		
▶ 1.IMAGE ADJ◀▶		
2.MONITOR		LCD◀▶
3.CAM TITLE		OFF
4.MOTION DET		OFF
5.PRIVACY		OFF
6.DIS		OFF
7.LANGUAGE		ENGLISH
8.RETURN◀▶		

• IMAGE ADJ :

- 1) When the SPECIAL menu screen is displayed, select 'IMAGE ADJ' by using the Function Setup switch so that the arrow indicates 'IMAGE ADJ'.

- 2) Select a desired mode using the Function Setup switch.

- V-REV : You can flip the picture vertically on the screen.
- H-REV : You can flip the picture horizontally on the screen.
- D-ZOOM : You can use a digital zoom of x1 ~ x16.
- FONT COLOR : You can change the OSD font color.
(White, Yellow, Green, Red, Blue)
- SHARPNESS : As you increase this value, the picture outline becomes stronger and clearer. Adjust this value appropriately depending on the sharpness of the picture.
- RETURN : Select this to save the settings for the IMAGE ADJ menu and to return to the SPECIAL menu.

IMAGE SETUP		
▶ 1.V-REV		OFF
2.H-REV		OFF
3.D-ZOOM		OFF
4.FONT COLOR		WHITE
5.SHARPNESS		ON◀▶
6.RETURN◀▶		



- If you increase the SHARPNESS level too high, the picture may become distorted or noise may appear.

- **Monitor** : Please change the settings value of video appropriate to your monitor.

- LCD : Please select this menu item when using an LCD monitor.
You can change the gamma, PED level and color gain in the sub menus.

- CRT : Please select this menu item when using a CRT monitor.

- USER : Please use this menu item when using a monitor other than standard ones.
You can change the gamma, PED level and color gain in the sub menus.

LCD MONITOR

▶ GAMMA 0.55

PED LEVEL ■■■■■■■■■■ 17

COLOR GAIN ■■■■■■■■■■ 50

RESET ←

Press SET to Return

- **CAM TITLE** :

If you enter a title, the title will appear on the monitor.

- 1 If the SPECIAL menu screen is displayed, use the Function Setup switch so that the arrow indicates 'CAM TITLE'.
- 2 Set it to 'ON' by using the Function Setup switch.
- 3 Press the Function Setup switch.
- 4 Use the Function Setup switch to move to a desired letter and select the letter by pressing the switch. Repeat this to enter multiple letters. You can enter up to 15 letters.
- 5 Enter a title, move the cursor to 'POS' and press the Function Setup switch. The entered title appears on the screen. Select the position to display the title on the screen by using the Function Setup switch and press. When the position is determined, select 'END' and press the Function Setup switch to return to the SPECIAL menu.

CAMERA TITLE SETUP

A B C D E F G H I J K L M

N O P Q R S T U V W X Y Z

a b c d e f g h i j k l m

n o p q r s t u v w x y z

- . 0 1 2 3 4 5 6 7 8 9

← → CLR POS END



setup

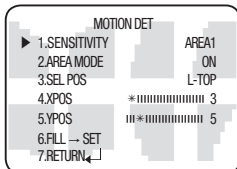


- When the CAM TITLE menu is 'OFF', no title will be displayed on the monitor screen even if you enter one.
- Only English is available in the mode.
- If you move the cursor to CLR and press the Function Setup switch, all the letters are deleted. To edit a letter, change the cursor to the bottom left arrow and press the Function Setup switch. Move the cursor over the letter to be edited, move the cursor to the letter to be inserted and then press the Function Setup switch.

● MOTION DET :

This product has a feature that allows you to observe movement of objects in 8 different areas on the screen, and the words 'MOTION DETECTED' appear on the screen when movement is detected. You can monitor activity more efficient.

- ① When the SPECIAL menu screen is displayed, press the Function Setup switch so that the arrow indicates 'MOTION DET'.
- ② Set up the mode using the Function Setup switch.



- SENSITIVITY :

You can select up to 8 MD areas.

When SENSITIVITY number is high, motion detection sensitivity is increased to recognize even small movement.

- AREA MODE : Determines whether to use the MD area selected in SENSITIVITY.
- SEL POS : Determines which of the 4 vertices of each MD area is to be used.
- XPOS : Determines the coordinate of the horizontal axis for SEL POS.
- YPOS : Determines the coordinate of the vertical axis for SEL POS.
- FILL → SET : Fills in a selected MD area. The color of filling is sequentially selected as brown, orange, blue, cyan, yellowish green, yellow, magenta and red.
- RETURN : Select this to save the MOTION DET menu settings and return to the SPECIAL menu.



- MD areas show only MOTION DET menu. Therefore, MD areas are only displayed while setting the MD menu.

- **PRIVACY** : Mask an area you want to hide on the screen.

① When the SPECIAL menu screen is displayed, press the Function Setup switch so that the arrow indicates 'PRIVACY'.

② Set up the mode using the Function Setup switch.

- **AREA** : You can select up to 12 PRIVACY areas.
- **MODE** : Determines whether to use the area selected in the AREA SEL, and the size and position of the area.
- **MASK COLOR** : Determine area color. You can select GREEN, RED, BLUE, BLACK, WHITE and GRAY.
- **MASK TONE** : Adjust the brightness of MASK COLOR.
- **TOP/BOTTOM/LEFT/RIGHT** : Adjust the size and position of the selected area.
- **RETURN** : Select this to save the PRIVACY menu settings and return to the SPECIAL menu.

PRIVACY AREA SETUP		
▶ 1.AREA		AREA1
2.MODE		OFF
3.MASK COLOR		GREEN
4.MASK TONE	*■■■■■■■■	1
5.TOP	■■■■■■■■	39
6.BOTTOM	■■■■■■■■	79
7.LEFT	*■■■■■■■■	13
8.RIGHT	■■■■■■■■	52
9.RETURN	◀	

- **DIS (Digital Image Stabilizer)** :

This function mitigates any picture movement due to external factors such as wind.



- As the DIS function uses the digital zoom the camera's resolution will decrease.
- DIS doesn't operate when background illumination is too low.
- DIS doesn't operate when object pattern is monotonic as like sky or white wall.
- If DIS is enabled, the digital zoom is not configured to less than x1.2 level.

- **LANGUAGE** : You can select the menu language according to your requirements.
- **RETURN** : Select this to save the SPECIAL menu settings and return to the MAIN SETUP menu.

setup

EXIT

Select a desired EXIT mode using the Function Setup switch depending on the camera purpose.

- **SAVE** : Save the current settings and exit the MAIN SETUP menu.
- **NOT SAVE** : Do not save the current settings and exit the MAIN SETUP menu.
- **RESET**: Resets the camera settings to the factory defaults.
Language and Monitor settings are not initialized.

troubleshooting

TROUBLESHOOTING

If you have trouble operating your camera, refer to the following table. If the guidelines do not enable you to solve the problem, contact an authorized technician.

PROBLEM	SOLUTION
Nothing appears on the screen.	<ul style="list-style-type: none">▶ Check that the power cord and line connection between the camera and monitor are fixed properly.▶ Check that you have properly connected VIDEO cable to the camera VIDEO output jack.
The image on the screen is dim.	<ul style="list-style-type: none">▶ Is the lens stained with dirt? Clean your lens with a soft, clean cloth.▶ Check the monitor and DVR settings.▶ If the camera is exposed to very strong light, change the camera position.
The image on the screen is dark.	<ul style="list-style-type: none">▶ Adjust the contrast feature of the monitor or DVR.▶ If you have an intermediate device, set the 75Ω / Hi-z properly.
The camera is not working properly, and the surface of the camera is hot.	<ul style="list-style-type: none">▶ Check that you have properly connected the camera to an appropriate power source.
The DAY/NIGHT menu does not work.	<ul style="list-style-type: none">▶ Check that AGC of EXPOSURE SETUP menu is 'OFF'.
The SENS-UP function does not work.	<ul style="list-style-type: none">▶ Check that AGC of EXPOSURE SETUP menu is 'OFF'.▶ Check that SHUTTER of EXPOSURE SETUP menu is 'A.FLK' or 'MANUAL'.
The Motion Detection function does not work.	<ul style="list-style-type: none">▶ Check that MOTION DEF of SPECIAL SETUP menu is 'OFF'.
Color is not correct.	<ul style="list-style-type: none">▶ Check the setting of WHITE BAL SETUP menu .
The screen flickers continually.	<ul style="list-style-type: none">▶ Check that the camera is not pointing at the sun.
IR-LED isn't lighted.	<ul style="list-style-type: none">▶ Isn't DAY/NIGHT function setting up the color mode? Please change the AUTO or B/W mode.

specifications

SPECIFICATIONS

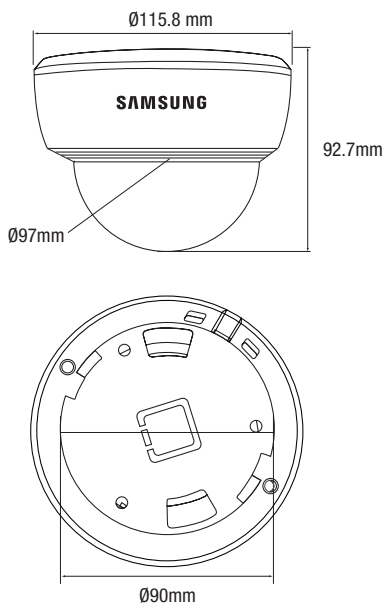
	SCD-2080RN	SCD-2080RP
Video		
Imaging Device	1/3" Super HAD CCD II	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2:1 Interlace	
Synchronization	Internal	
Frequency	H : 15.734KHz V:59.94Hz	H: 15.625KHz V: 50.Hz
Horizontal Resolution	Color : 600 TV lines, B/W : 700TV lines	
Min. Illumination	Color : 0.15Lux (50IRE@F1.2), 0.0003Lux(Sens-up, x512) B/W : 0Lux (LED on)	
S/N (Y Signal)	52dB (Weight On, AGC Off)	
Video Output	CVBS : 1.0Vp-p, 75Ω composite	
Lens Type		
Focal Length (Zoom Ratio)	2.8 ~ 10mm (3.6x)	
Max. Aperture Ratio	1:1.2(Wide) ~ 2.8(Tele)	
Angular Field of View	H: 94.4°(Wide) ~ 28°(Tele) / V: 69.2°(Wide) ~ 21°(Tele)	
Min. Object Distance	0.2m	
Lens Type	DC Auto Iris	
Mount Type	Board Type	
Pan / Tilt		
Pan Range	0° ~ 352°	
Tilt Range	0° ~ 73°	
Rotate Range	0° ~ 348°	
Operational		
On Screen Display	Multi-language Support by Coaxial Cable English, French, Spanish, Japanese, Korean, Portuguese, Taiwanese	Multi-language Support by Coaxial Cable English, French, German, Spanish, Italian, Chinese, Czech, Danish, Polish, Portuguese, Russian, Romanian, Serbian, Swedish, Turkish

	SCD-2080RN	SCD-2080RP
SSDR	On / Off (Level adjustable)	
Backlight Compensation	BLC / HLC / OFF	
Camera Title	Off / On (Displayed 15 characters)	
Day & Night	Auto (ICR) / Color / B/W	
Backlight Compensation	BLC / HLC / Off	
Contrast Enhancement	SSDR (Off / On)	
Digital Noise Reduction	SSNR3 (Off/On)	
Digital Image Stabilization	Off / On	
Motion Detection	Off / On (8 programmable zones)	
Privacy Masking	Off / On (12 programmable zones)	
Sens-up (Frame Integration)	2x ~ 512x	
Gain Control	Off / Low / High	
White Balance	ATW / Outdoor / Indoor / Manual / AWC (1,700K° ~ 11,000K°)	
Electronic Shutter Speed	1/60 ~ 1/120,000 sec	1/50 ~ 1/120,000 sec
Digital Zoom	Off / On (1x ~ 16x)	
Reverse	H-Rev (Off/On), V-Rev (Off/On)	
Communication	Coaxial Control (SPC-300 Compatible)	
Protocol	Pelco-C (Coaxitron)	
IR Distance	20m (IR LED 12 EA)	
Environmental		
Operating Temperature / Humidity	-10°C ~ +50°C (+14°F ~ +122°F) / Less than 90% RH	
Electrical		
Input Voltage	12V DC ±10%	
Power Consumption	Max. 3.5W	
Mechanical		
Color / Material	Ivory / Plastic (Dome Cover : Smoked)	
Dimension (ø×H)	ø115.8x92.7mm	
Weight	310g	

※ This specification can be changed without notice for performance improvement of product.

specifications

DIMENSION



MEMO

MEMO

MEMO

MEMO

MEMO



SALES NETWORK

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